MI.310.11

Permit No. MI 0037486

923651 Page 1 of 9

D.6

State of Michigan
Department of Natural Resources
Water Resources Commission

RECEIVED
JAN 13 1981
Water Quality-E & TS

DISCHARGE PERMIT APPLICATION

(Please print or type all information)

Section 1. Applicant and Facility Description — unless otherwise specified on this form, all items are to be completed. If an item is not applicable, indicate "NA."

1. **Legal Name of Applicant:**

Kent County Department of Public Works

2. **Mailing Address of Applicant:**

number & street 1500 Scribner Avenue, N.W.

city Grand Rapids state MI zip code 49504 phone 616 (area code) 774-3694 (number)

3. **Applicant's Authorized Agent for further correspondence:**

name & title Curt A. Kemppainen, Assistant Director

number & street 1500 Scribner Avenue, N.W.

city Grand Rapids state Michigan zip code 49504

telephone: area code 616 number 774-3694

4. **Facility/Activity:** give name, ownership and physical location of the plant or other operating facility where discharge(s) does or will occur.

name Plainfield Landfill, 2908 Ten Mile Road
Grand Rapids, Michigan

ownership: _____ sole owner; _____ corporation; _____ state in which incorporation filed;

_____ partnership; X governmental unit; _____ nonprofit organization.

location:

street & number 2908 Ten Mile Road, N.E.

city Grand Rapids township Plainfield

county Kent : town 8N range R11W section 2+3

I certify that I am familiar with the information contained in this application, and to the best of my knowledge and belief, such information is true, complete and accurate. Submitted in accordance with Section 8 (b), Act 245, Public Acts of 1929, as amended.

Signature of Applicant	Date	If Partnership, Signature of Co-Owner	Date
Curt A. Kemppainen			

Print or Type Applicant's Name & Title	Print or Type Co-Owner's Name
Curt A. Kemppainen, Assistant Director	

R4898

NOTE: If sanitary sewage is to be discharged from housing developments, apartment buildings, shopping centers, or other commercial developments, into a system other than an approved municipal sanitary waste collection system, the following should be completed and signed by an authorized municipal official or township officer.

It is the policy of the Commission that applications involving the disposal of sewage of human origin from any entity other than local government include the local government as a co-signer of the statement, and that all proceedings and hearings against said entity will include the local unit of government as a party by appropriate notice, and all permits issued as a result of such hearings and proceedings will be jointly against the said unit and entity.

Signature of Authorized Local Government Representative

Mailing Address of Local Government Representative

Print or Type Name of Local Government Representative

Type II Landfill Operation

5. **Nature of Business:** describe the nature of the business or manufacturing process conducted at the plant or operating facility.

6. **Source of Water Supply:** indicate average water intake volume per day by sources

municipal — name	NA	gallons per day
surface water intake — name	NA	gallons per day
private-well	NA	gallons per day
other (specify)	NA	gallons per day

7. **Facility Water Usage:** average volume in gallons per day for the following types of water usage at the facility.

process water (including contact cooling water)	NA	gallons per day
noncontact cooling water	NA	gallons per day
sanitary water (number of people served)	NA	gallons per day
other (specify)	NA	gallons per day
total	-----	gallons per day

8. **Facility Discharges:** specify number of discharge points and the volume of water discharged or used from the facility according to the categories below.

	number of discharge points	total volume used or discharged — gal/day
surface water	2	54,500
municipal sanitary sewer		
municipal storm sewer		
groundwater —		
a. land application		
b. percolation system		
well injection		
other (specify)		
total		

9. **Discharge Locations:** provide a drawing or map of the facility showing each point of discharge listed in item 8. Label each discharge with the appropriate three digit serial number assigned in Section II, 1 (a).

10 **Pollution Incident Prevention Plan:** has your facility submitted a Pollution Incident Prevention Plan?

yes _____ no _____ date submitted _____ date fully implemented _____

11 Critical **Materials**

a. **usage:** This application contains a list of critical materials. Please indicate the amount of these materials used in, produced in, or are incidental to your operation.

name	amount lbs/yr.	name	amount lbs/yr.
NA			

Section II Basic Discharge Description
(Please print or type all information)

Complete this section for each discharge indicated in Section 1, Item 8, except those discharges which enter a municipal sanitary sewer. Separate descriptions of each discharge are required even if several discharges originate in the same facility. All values for an existing discharge should be representative of the twelve previous months of operation. If this is a proposed discharge, values should reflect best engineering estimates.

1. **Discharge Serial No. and Name**

   a. discharge serial number 0 0 6 (three digit code, 001, 002, etc.)

   b. type of waste water being discharged (Process, noncontact cooling, etc.) Groundwater

   c. volume discharged 28,000 average gals/day unknown maximum gals/day

2. **Discharge Location**

   town 8N range 11W section 2+3

   county Kent city or town Plainfield

3. **Discharge Point Description** (If the discharge is to a county drain or storm sewer, indicate the receiving waters; e.g., Clear Lake via Mud Drain)

   ____ lake

   _X_ river or stream — Un-named tributary of Rogue River

   ____ municipal storm sewer

   ____ county drain

   ____ groundwater

   ____ well injection

   ____ other (specify)

4. **Activity Description**

   give a narrative description of activity producing this discharge:

b. if subsurface disposal, land application, or oxidation pond is proposed, nearest distance to a surface watercourse: ------ feet.

c. if discharge is to underground by injection well, include an application and/or approved permit in accordance with the provisions of Act 315, Public Acts of 1969.

d. names and addresses of property owners adjacent to the facility:

[redacted]

7. **Wastewater Characteristics:** If you presently have a discharge permit, list all parameters reported on the current monthly operating report and compute monthly averages, maximum and minimum from the past twelve months. For the proposed discharge, describe the expected characteristics of the discharge after treatment.

Parameter	Monthly Average	Daily Maximum	Monthly Minimum	Sample Frequency	Sample Type
BOD_5				Monthly	Grab
COD				Monthly	Grab
Total Iron				Monthly	Grab
Chlorides				Monthly	Grab
Total Phosphorus (as P)				Monthly	Grab
Nitrate-N				Monthly	Grab
Ammonia-N				Monthly	Grab
Oil & Grease				Monthly	Visual-Obs
pH		7.0 - 9.0 mg/l		Monthly	Grab

8 **Critical Materals Discharged:** List those critical materials not reported in Item 7 which may be present in the discharge.

Parameter	Concentration	Units
NA		

9. **Plant Controls:** Check if the following plant controls are available for this discharge:

   ___ NA alternate power source ___ alarm or emergency procedure for power or equipment failure.

10. **Residuals and Residues:** Are there any sludges, residues, or critical materials removed from or resulting from treatment or control of wastewaters produced by this discharge?

    ___ yes; ___X___ no; if *no* is checked, continue to Item 11.

    a. the physical state of the residue:

       ___ liquid; ___ heavy sludge; ___ wet solids; ___ dry solids.

    b. the liquid portion of the residue is primarily:

       ___ water; ___ oil; ___ chemical solvent.

    c. the residue results from:

       ___ process wastewater; ___ sanitary sewage; ___ chemical production;

       ___ food processing; ___ machining; ___ dust collection;

       ___ paint booths; ___ water treatment; ___ other (specify).

       _____

    d. estimate the total annual volume or weight of the material:

       ___ gallons; pounds; cubic yards (circle one)

    e. if you dispose of the material yourself, indicate the type of disposal site:

       ___ public landfill; ___ private landfill; ___ own land;

       ___ shipped out of state; ___ incinerated; ___ other (specify).

       _____

    f. if a public or private landfill(s) is used, give name(s) and address(es):

       _____

       _____

    g. if you have the material removed by commercial waste or refuse hauler(s), give name(s) and address(es):

       _____

       _____

       _____

FISH - GAME FISH

ROUGH FISH

FORAGE FISH

AQUATIC PLANTS | PERIPHYTON | FILAMENTOUS ALGAE

MACROPHYTES

STREAMBANK VEGETATION: (GRASSES) (BRUSH) (HERBACEOUS) CONIFERS DECIDUOUS BARREN OTHER_____

MACROBENTHOS QUALITATIVE SAMPLE CHECK LIST (INDICATE DOMINANT GROUPS)

SPONGES	DRAGONFLIES	RATTAILED MAGGOTS
HYDRA	DAMSELFLIES	MIDGES
FLATWORMS	TRUE BUGS ✓	STONEFLIES
ROUNDWORMS	BEETLES	MAYFLIES
LEECHES	AQUATIC CATTERPILLARS	-BURROWERS
WATER MITES	ALDERFLIES	-SWIMMERS ✓
SOWBUGS ✓✓✓	HELLGRAMITES	-CLINGERS, SPRAWLERS
SCUDS	CRANEFLIES	CADDISFLIES
CRAYFISH	NO-SEE-UMS	-FREE LIVING
SNAILS-LIMPETS	BLACKFLIES ✓	-PURSE CASE MAKERS
CLAMS	DEERFLIES	-TUBE CASE MAKERS
AQUATIC EARTHWORMS	MOSQUITOES	-SADDLECASE MAKERS
	SNIPEFLIES	-NET SPINNERS OR RETREATMAKERS ✓

NOTES, ETC.

Water sample results:

T.O.C. - 2.3 mg/l

B.O.D. - 1.7 mg/l

NH_3 - 0.023 mg/l

Cd - < 20 µg/l

Cr - < 50 µg/l

Cu - < 20 µg/l

Ni < 50 µg/l

Pb < 50 µg/l

Zn < 50 µg/l

Fe 360 µg/l

MICHIGAN DEPARTMENT OF NATURAL RESOUR
WATER QUALITY DIVISION

BIOLOGY SECTION
STREAM PROBLEM ASSESSMENT

Station Number 1 Investigator(s) Frost + Creal

Date 6/11/82 TIME 15:00 PHOTOGRAPH NUMBER —

BODY OF WATER no name LOCATION Unn Rd NE Kent Co Ln 1/4 11

COUNTY Kent T9NR11DS 34 SE 1/4 TWP Algoma - Plainfield

REASON FOR SURVEY Leadgill Brooks inputs

VICINITY LAND USE: Mostly Forest Mostly Urban (Mostly Agriculture) Other Inside

AVE. STREAM WIDTH 0.3 m AVE. STREAM DEPTH <0.05 m VELOCITY ms STREAM km

STREAM SHADING: Open Partly Open (Shaded) STREAM TYPE: (Coldwater) Warmwater

WATER TEMP. 18 °C AIR TEMP. 15 °C WEATHER: (Sunny) Partly Cloudy Cloudy Rainy DAM u/s: Yes No km

CHANNELIZED: Yes (No) CHANNEL EROSION: (None) Slight Moderate Severe HIGH WATER MARK m

SECCHI DISC TRANS: — m TURBIDITY: Clear (Slightly Turbid) Turbid Opaque WATER COLOR

WATER ODORS: (Normal) Sewage Petroleum Chemical Other

SURFACE OILS: (None) Slick Sheen Globs Flecks

SEDIMENT ODORS: (Normal) Sewage Petroleum Chemical Anaerobic Other

SEDIMENT OILS: (Absent) Slight Moderate Profuse

DEPOSITS: (Sludge) Sawdust Paperfiber Sand Relict Shells Other

ARE THE UNDERSIDES OF STONES WHICH ARE NOT DEEPLY IMBEDDED IN SUBSTRATE BLACK? (YES) NO Brown

SUBSTRATE TYPE	FLOW VELOCITY m/sec	CHARACTERISTICS OR SIZE	PERCENT IN SAMPLING AREA
BOULDERS*	>1.2 (>3 fps)	256 mm (10") dia.	
RUBBLE*	>0.6 (>2 fps)	64-256 mm (2.1-10") dia.	
GRAVEL*	>0.3 (>1 fps)	2-64 mm (0.1-2.5") dia.	
SAND	>0.2 (>0.7 fps)	0.06-2.00 mm dia. Gritty texture	
SILT	>0.12 (>0.4 fps)	0.004-0.006 mm dia.	
MUCK-MUD	>0.12 (>0.4 fps)	black, very find organic	

*IMBEDDEDNESS: 0 = NONE 1 = 1/3 OR LESS 2 = 2/3 OR MORE

SUBSTRATE TYPE	CHARACTERISTICS OR SIZE	PERCENT IN SAMPLING AREA
CLAY	Slick texture	
MARL	Grey, shell fragments	
DETRITUS	Sticks, wood, coarse plant materials	
FIBROUS PEAT	Partially decomposed plant material	
PULPY PEAT	Finely divided plant material, parts indistinguishable	
LOGS & STICKS		

BIOTA:

PHYTOPLANKTON	(0)	1	2	3	4	SLIMES	0	1	(2)	3	4
PERIPHYTON	0	1	2	(3)	4	ZOOPLANKTON	0	1	2	3	4
FILAMENTOUS ALGAE	0	1	(2)	3	4	MACROINVERTEBRATES	0	1	2	3	4
MACROPHYTES	0	(1)	2	3	4	FISH	0	1	2	3	4

0 - Absent 1 - Sparse 2 - Moderate 3 - Abundant 4 - Profuse

FROM: John Robinson
Biology

File R

TO: Les Thomas
Permits

SUBJECT: Request for field investigation 3-23-77

OUR JOB NO.

DATE OF MEMO 3/24/82

MESSAGE

A comment letter from the Plainfield Charter Twp. Kent Co. complained about degradation of a small stream receiving the groundwater dewatering discharge from the Kent Co DPW Sanitary landfill [illegible] NPDES # MI0037486. We responded by explaining permit limits will protect the stream but that we would request our Biology section to investigate and make a determination regarding the stream's conditions.

See Attached.

SIGNED Thanks, L Thomas

SENDER – DO NOT WRITE BELOW THIS LINE

REPLY

Attached are our observations and analytical results from water samples. No heavy metals were above the level of detection except iron. These levels are not greatly elevated either. Slimes were present in the stream at 10 mile Rd and indicated dissolved organic substances which are readily biodegradable. The length of stream degraded by slimes was not measured but will increase in the fall and winter. Further evaluation may be needed.

SIGNED [illegible]

DATE 7/23/82

REPLY

SENDER — Retain part 2 for your follow-up, send parts 1 and 3 to addressee
RECIPIENT — Retain part 1 and return part 3

Alpha Lab Environmental Laboratory

Kent Co. DPW
1500 Scribner, N.W.
Grand Rapids, MI 49507

July 2, 1982
Project No. 13780
Date Received: 6/9/82
PO No. Verbal

Attention: Mr Lee Bartlett

	Outfall 005	Outfall 006	Outfall 004	Outfall 007
Chloride	18 mg/l	37 mg/l	13 mg/l	Dry
Iron	2.4 mg/l	0.04 mg/l	1.3 mg/l	"
Nitrogen Ammonia	0.2 mg/l	0.1 mg/l	<0.1 mg/l	"
Nitrogen Nitrate	0.9 mg/l	0.7 mg/l	0.2 mg/l	"
Oil Severity	0	0	0	"
Biochemical Oxygen Demand	15 mg/l	<2 mg/l	18 mg/l	"
Chemical Oxygen Demand	19 mg/l	<4 mg/l	18 mg/l	"
pH	6.3	7.4	6.4	"
Phosphorous Total	<0.02	<0.02	<0.02	"
Lab No.	010	011	012	

This report is accurate and true to the best of my ability and in accordance to procedures described in "Standard Methods for the Examination of Water and Wastewater," 15th Edition, and "EPA Methods for Chemical Analysis of Water and Wastes," March, 1979.

David L Baumann
Michael Winchester, Chemist

lk

1509 East Beltline, Grand Rapids, Michigan 49506 (616) 940-0781

Alpha Lab [illegible]

Kent County DPW
1500 Scribner, N.W.
Grand Rapids, MI 49504

July 26, 1982
Project No. 12880
Date Received: 7/9/82
PO No. Contract

Attention: Mr. Lee Bartlett

	Outfall 004 7/9/82 2:30 p.m.	Outfall 005 7/9/82 2:30 p.m.	Outfall 006 7/9/82 2:30 p.m.
Biochemical Oxygen Demand	29 mg/l	30 mg/l	<5 mg/l
Chemical Oxygen Demand	42 mg/l	22 mg/l	<4 mg/l
Chlorides	18 mg/l	33 mg/l	42 mg/l
Iron Total	1.5 mg/l	3.4 mg/l	0.17 mg/l
Nitrogen Ammonia	<0.1 mg/l	<0.1 mg/l	<0.1 mg/l
Nitrogen Nitrate	0.1 mg/l	0.7 mg/l	0.6 mg/l
Oil Severity	0	0	0
pH	6.3	6.4	7.6
Phosphorus Total	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l
Lab No.	304	305	306

This report is accurate and true to the best of my ability and in accordance to procedures described in "Standard Methods for the Examination of Water and Wastewater," 15th Edition, and "EPA Methods for Chemical Analysis of Water and Wastes," March, 1979.

Michael Winchester, Chemist

jds

1860 Lake Beltline Grand Rapids, Michigan 49505 (616) 949-0781

82124

Alpha Lab

ent County DPW
1500 Scribner, N.W.
Grand Rapids, MI 49504

July 26, 1982
Project No. 12880
Date Received: 7/13/82
PO No. Contract

Attention: Mr. Lee Bartlett

	Outfall 004 7/13/82 2:00 p.m.	Outfall 005 7/13/82 2:00 p.m.	Outfall 006 7/13/82 2:00 p.m.
Biochemical Oxygen Demand	46 mg/l	50 mg/l	5 mg/l
Chemical Oxygen Demand	46 mg/l	82 mg/l	20 mg/l
Chlorides	12 mg/l	19 mg/l	37 mg/l
Iron	0.72 mg/l	2.9 mg/l	0.06 mg/l
Nitrogen Ammonia	<0.1 mg/l	<0.1 mg/l	<0.1 mg/l
Nitrogen Nitrate	0.1 mg/l	0.4 mg/l	0.4 mg/l
Oil Severity	0	0	0
pH	5.8	5.8	7.5
Phosphorus Total	0.02 mg/l	<0.01 mg/l	<0.01 mg/l
Lab No.	334	335	336

This report is accurate and true to the best of my ability and in accordance to procedures described in "Standard Methods for the Examination of Water and Wastewater," 15th Edition, and "EPA Methods for Chemical Analysis of Water and Wastes," March, 1979.

Michael Winchester, Chemist

jds

Alpha Lab Environmental Laboratory

Kent County DPW
1500 Scribner, N.W.
Grand Rapids, MI 49504

July 30, 1982
Project No. 12880
Date Received: 7/21/82
PO No. Contract

Attention: Mr. Lee Bartlett

	Outfall 004 7/21/82 10:25 a.m.	Outfall 005 7/21/82 10:10 a.m.	Outfall 006 7/21/82 10:30 a.m.
Biochemical Oxygen Demand	29 mg/l	15 mg/l	<4 mg/l
Chemical Oxygen Demand	34 mg/l	19 mg/l	28 mg/l
Chloride	30 mg/l	44 mg/l	84 mg/l
Lab No.	388	389	390

This report is accurate and true to the best of my ability and in accordance to procedures described in "Standard Methods for the Examination of Water and Wastewater," 15th Edition, and "EPA Methods for Chemical Analysis of Water and Wastes," March, 1979.

Michael Winchester, Chemist

jds

Alpha Lab [illegible]

Kent County DPW
1500 Scribner, N.W.
Grand Rapids, MI 49504

Attention: Mr. Lee Bartlett

August 2, 1982
Project No. 12880
Date Received: 7/28/82
PO No. Contract

Samples Taken 7/28/82	Outfall 004 11:00 a.m.	Outfall 005 11:00 a.m.	Outfall 006 12:00 a.m.
Biochemical Oxygen Demand	28 mg/l	13 mg/l	11 mg/l
Chemical Oxygen Demand	40 mg/l	10 mg/l	<4 mg/l
Chlorides	25 mg/l	37 mg/l	75 mg/l
Lab No.	424	425	426

MOST LIKELY INCORRECT

This report is accurate and true to the best of my ability and in accordance to procedures described in "Standard Methods for the Examination of Water and Wastewater," 15th Edition, and "EPA Methods for Chemical Analysis of Water and Wastes," March, 1979.

Michael Winchester, Chemist

jds

RECEIVED
AUG 2 - 1982
KENT COUNTY DEPT. OF PUBLIC WORKS

3. Based on past data and the general rule that BOD is less than COD, the BOD for outfall 006 received on July 28, 1982, is most likely incorrect and is noted as such on the attached sheets.

4. Analysis of monitor wells dated June 16, 1982, does not indicate any types of similar problems which have occurred at outfalls 004 and 005.

Further investigation will take place to bring the outfall parameters within specified limits; however, it does seem apparent that with the bacterial problem and continued high temperatures of the summer, it will probably be several months before these limits are again met.

If you have any further questions or comments, please contact me at 774-3693.

Sincerely,

KENT COUNTY DEPARTMENT OF PUBLIC WORKS

Lee A. Bartlett, P.E.
Civil Engineer

LAB/srm
Enclosures

cc: DNR-Lansing
U.S.E.P.A.-Region V
D. Lamoreaux

BOARD OF PUBLIC WORKS
OF THE COUNTY OF KENT

1500 Scribner Ave., N.W. Grand Rapids, Michigan 49504

Telephone: (616) 774-3694

August 10, 1982

Mr. John Bantjes
State of Michigan
Department of Natural Resources
State Office Building
350 Ottawa Avenue, N.W.
Grand Rapids, Michigan

RE: Non-Compliance Notification
NPDES Permit Number MI 0037486
Plainfield Township Landfill

Dear Mr. Bantjes:

Attached are the most recent results of analysis for outfalls at the above referenced site. I have "boxed in" the parameters which have exceeded the maximum monthly effluent limitations for the month of July, 1982. Please note that although we had not received the new permit until June 28, 1982, we initiated weekly sampling (as required by the new permit) of outfalls based on samples taken on June 9, 1982, and whose results were reported to us on July 2, 1982. Also note that to date, the effluent limitations for outfalls 006 and 007 (the final point of discharge) have not been exceeded.

The following items of information are to bring you up to date on the current situation and to satisfy part two, section a, item 4, "Non-Compliance Notification", of our NPSED Permit:

1. My last letter dated May 4, 1982, should be corrected. The outfall referred to in that letter as 006 should be 005, and the outfall 007 should be 006.

2. As the seasonal increase in temperature arrived, a reddish-brown slime on the walls of the underdrain pipe was observed. In order to clean the pipe and curb the apparent bacterial growth on the pipe walls, the underdrain lines were cleaned and chlorinated with a sewer jet truck on July 14, 1982. This was done by mixing a 500 ppm solution of chlorine in the jet truck's water tank. Keep in mind that these pipes are perforrated and cannot be chlorinated as in normal procedures. Comparing the results of samples received on July 13, 1982, with those received on July 21, 1982, indicates the cleaning reduced the BOD, but at the same time, resulted in higher chloride concentrations.

MICHIGAN WATER RESOURCES COMMISSION
FACILITY INSPECTION REPORT

FACILITY	REGION	DISTR.	FACILITY	PERMIT	RATING
PLAINFIELD TWP LANDFILL KENT COUNTY DPW 2908 TEN MILE ROAD NE PLAINFIELD TWP MI	2	3	104 410294	MI0037486	NOT RATED

LAST VISIT

TYPE	DESCRIPTION	DATE	REASON
1	ENFORCEMENT	11 / 80	A

VISIT REASONS

A - REGULAR SCHEDULE
B - EFFLUENT FAILURE
C - COMPLIANCE FAILURE
D - REGION REQUEST
E - FACILITY REQUEST
F - PUBLIC COMPLAINT
G - INFORMATION CHANGES
H - OTHER

OPERATOR - NUMBER

OPERATOR NOT ESTABLISHED

CURRENT VISIT

REASON	DATE (M M D D Y Y)	FOLLOW-UP DATE (M M D D Y Y)	NO. OF VISITS
F	11 09 82		01

RATING FOR THIS INSPECTION:
FACILITY CLASSIFICATION: A2F
OPERATOR NOT CLASSIFIED

OUTFALL NUMBERS AND DESCRIPTIONS

410296	001	DEWATERING WELL TB 35
410297	002	DEWATERING WELL TB 39
410298	003	DEWATERING WELL TB 33
410299	004	CENTER DEWATERING DRAIN
410300	005	EAST DEWATERING DRAIN
410301	006	EAST CULVERT AT 10 MILE RD
410302	007	WEST CULVERT AT 10 MILE RD
410303	008	LEACHATE HOLDING FACILITY

VISITED THE SITE WITH LEE BARTLETT, P.E. OF THE KENT COUNTY DEPARTMENT OF PUBLIC WORKS. OUTFALL 007 WAS DRY (NO FLOW), EVEN THOUGH IT RAINED DURING THE INSPECTION TOUR. OUTFALL 006 HAD A NORMAL WET WEATHER FLOW; NO TURBIDITY NOTED VISUALLY. OUTFALLS 004 AND 005 FLOWED AT A RATE OF 10-15 G.P.M. RED IRON BACTERIA DEPOSITS WERE PRESENT AT BOTH OUTFALLS. THIS IS COMMON WITH DISCHARGES OF GROUNDWATER IN THE WEST MICHIGAN AREA. THE DISCHARGE WATER WAS CLEAR AND COLORLESS WITH NO ODOR OR OTHER EVIDENCE OF LEACHATE CONTAMINATION.

IN ADDITION TO SAMPLING THE ON-SITE MONITORING WELLS THE KENT COUNTY DEPARTMENT OF PUBLIC WORKS HAS SAMPLED AREA RESIDENTIAL WELLS IN COOPERATION WITH THE LOCAL AND STATE HEALTH DEPARTMENTS.

INSPECTED BY: John Bantz

ANY CHANGES REQUIRED IN WISER FILE

RECEIVED
NOV 12 1982
WQD
POLLUTION CONTROL

1. WHITE: LANSING REGIONAL OFFICE 2. CANARY: LANSING DATA UNIT 3. PINK: DISTRICT COPY

BOARD OF PUBLIC WORKS
OF THE COUNTY OF KENT

1500 Scribner Ave., N.W. Grand Rapids, Michigan 49504

Telephone: (616) 774-3694

January 6, 1983

State of Michigan
Department of Natural Resources
Data Center
Box 30028
Lansing, MI 48909

RE: Kent County Department of Public Works
December, 1982, Monthly Operating Reports

Gentlemen:

Enclosed for your information are the Monthly Operating Reports for the Plainfield Township Landfill for the month of December, 1982.

During the month of December, 140,000 gallons of leachate were transported to the North Kent Sewage Disposal System from the Plainfield Township Landfill. At the present time, we are utilizing thirty (30) cells.

If you should have any questions or comments regarding this matter, please do not hesitate to contact Mr. Lee Bartlett at the above referenced phone number or address.

Sincerely,

KENT COUNTY DEPARTMENT OF PUBLIC WORKS

Curt A. Kemppainen

Curt A. Kemppainen
Assistant Director

srm
Enclosures

cc: D. Lamoreaux

Final Effluent Limitations

During the period beginning upon issuance of this permit and lasting until expiration of the permit, the permittee is authorized to discharge up to one-hundred thousand (100,000) gallons per day of dewatering groundwater plus an undetermined amount of storm runoff from outfalls 006 and 007 to unnamed tributaries to the Rogue River. Each discharge shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations kg/day (lbs/day) Monthly Average	Daily Maximum	Other Limitations Monthly Average	Daily Maximum	Monitoring Requirements Measurement Frequency	Sample Type
BOD_5					Monthly **	Grab
COD					Monthly **	Grab
Total Iron					Monthly	Grab
Chlorides					Monthly **	Grab
Total Phosphorus (as P)					Monthly	Grab
Nitrate-N					Monthly	Grab
Ammonia-N					Monthly	Grab
Outfall Observation*					Monthly	Visual

*Any unusual characteristics of the discharge which would not be expected from natural runoff and groundwater dewatering water (e.g., turbidity, discoloration, oil film, suspended matter, etc.) shall be reported immediately to the District Office of the Water Quality Division followed with a written report within 5 days detailing the findings of the investigation and the steps taken to correct the condition.

**In the event the concentrations of BOD_5, COD, or chlorides parameters exceeds the limits as set forth for outfalls 004 and 005 in Part I, A-1 for two consecutive weeks, monitoring frequency for outfalls 006 and 007 shall be weekly instead of monthly and shall continue as weekly until the concentrations for BOD_5, COD or chlorides are each at or below the limits specified in Part I, A-1.

a. The pH shall not be less than 6.0 nor greater than 9.0. The pH shall be monitored as follows: monthly; grab.

b. The discharge shall not cause excessive foam in the receiving waters. The discharge shall be essentially free of floating and settleable solids.

c. The discharge shall not contain oil or other substances in amounts sufficient to create a visible film or sheen on the receiving waters.

d. Samples taken in compliance with the monitoring requirements above shall be taken on the upstream side of the culverts in Ten Mile Road, receiving the surface drainage from the landfill site.

PART I

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. Final Effluent Limitations

During the period beginning upon issuance of this permit and lasting until expiration of this permit, the permittee is authorized to discharge up to fifty thousand (50,000) gallons per day of dewatering groundwater from each outfall 004 and 005 to unnamed tributaries to the Rogue River. Each discharge shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations kg/day (lbs/day) Monthly Average	Daily Maximum	Other Limitations Monthly Average	Daily Maximum	Monitoring Requirements Measurement Frequency	Sample Type
Flow, M^3/Day (MGD)					Twice Monthly	Report total daily flow
BOD_5		0.9(2.0)		5 mg/l	Weekly	Grab
COD		7.6(16.7)		40 mg/l	Weekly	Grab
Total Iron		0.38(0.8)		2.0 mg/l	Twice Monthly	Grab
Chlorides		9.5(20.9)		50 mg/l	Weekly	Grab
Total Phosphorus (as P)		0.09(0.2)		0.5 mg/l	Twice Monthly	Grab
Nitrate-N		0.19(0.4)		1.0 mg/l	Twice Monthly	Grab
Ammonia-N		0.19(0.4)		1.0 mg/l	Twice Monthly	Grab
Outfall Observation*					Daily	Visual

*Any unusual characteristics of the discharge which would not be expected from groundwater dewatering (e.g., turbidity, discoloration, oil film, suspended matter, etc.) shall be reported immediately to the District Office of the Water Quality Division, followed with a written report within 5 days detailing the findings of the investigation and the steps taken to correct the condition.

a. The pH shall not be less than 6.0 nor greater than 9.0 . The pH shall be monitored as follows: twice monthly; grab.

b. The discharge shall not cause excessive foam in the receiving waters. The discharge shall be essentially free of floating and settleable solids.

c. The discharge shall not contain oil or other substances in amounts sufficient to create a visible film or sheen on the receiving waters.

d. Samples taken in compliance with the monitoring requirements shall be taken at the outlets of the center and east dewatering drains (outfalls 004 & 005 respectively).

Permit No. MI 0037486

MICHIGAN WATER RESOURCES COMMISSION

AUTHORIZATION TO DISCHARGE UNDER THE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended, (33 U.S.C. 1251 et seq; the "Act"), and the Michigan Water Resources Commission Act, as amended, (Act 245, Public Acts of 1929, as amended, the "Michigan Act"),

Kent County Department of Public Works
1500 Scribner Avenue, N.W.
Grand Rapids, Michigan 49504

is authorized to discharge from a facility located at

2908 Ten Mile Road, N.E.
NW 1/4, W 1/2 of Sec. 2 & NE 1/4 of Sec. 3
T 8 N, R 11 W
Plainfield Township, Kent County

to receiving water named -unnamed tributaries to the Rogue River

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I and II hereof.

This permit shall become effective on the date of issuance and shall be final in the absence of a request for a hearing filed within 15 days after receipt thereof.

This permit and the authorization to discharge shall expire at midnight, February 28, 1987. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as are required by the Michigan Water Resources Commission no later than 180 days prior to the date of expiration.

This permit is based on the Company's application dated January 7, 1981, and shall supersede any and all Orders of Determination, Stipulation, or Final Orders of Determination previously adopted by the Michigan Water Resources Commission.

Issued this 22nd day of June, 1982, for the Michigan Water Resources Commission, superseding NPDES Permit No. MI 0037486 expiring April 30, 1981.

Robert J. Courchaine

Robert J. Courchaine
Executive Secretary